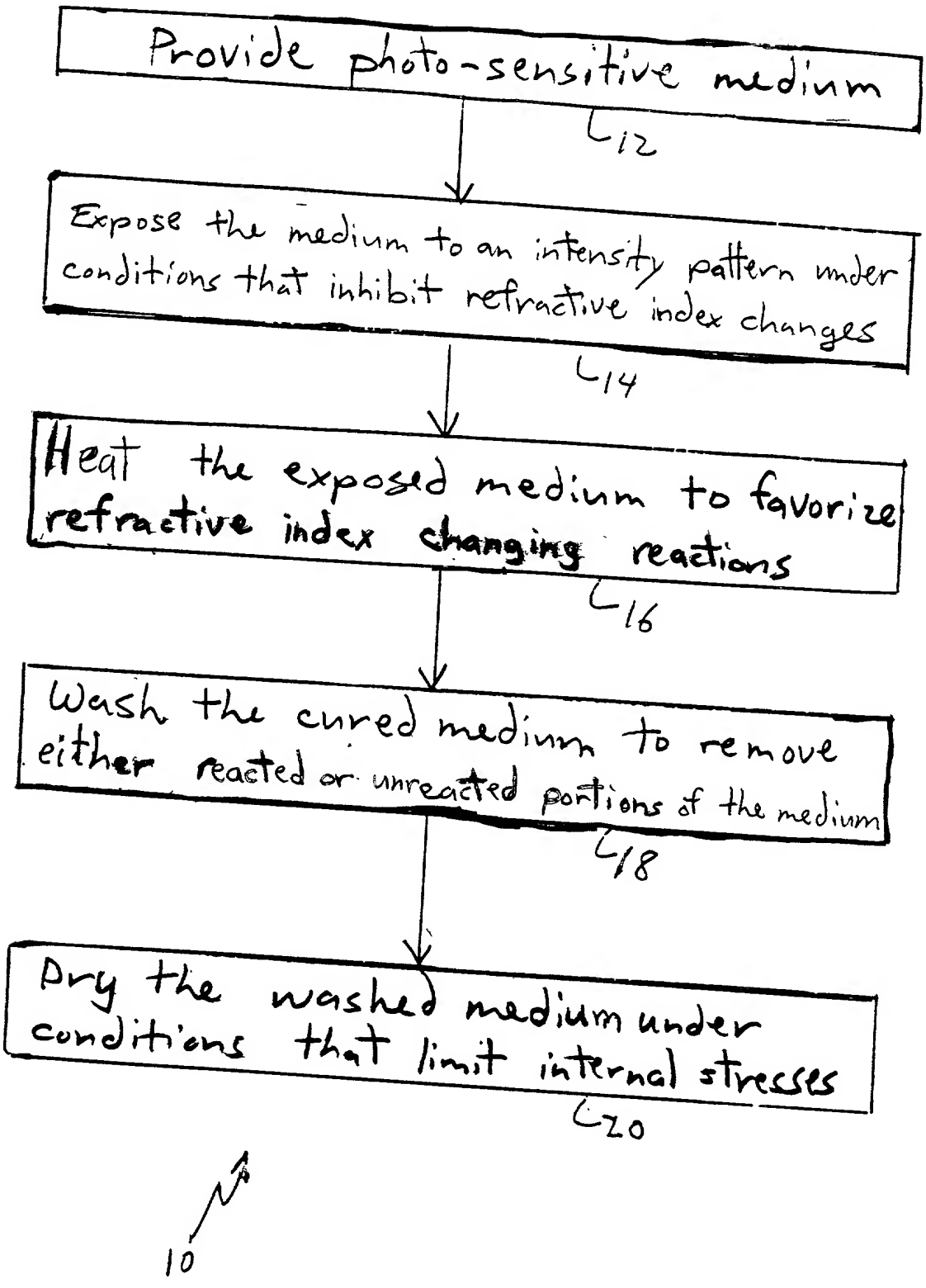

Provide photo-sensitive medium
12
Expose the medium to an intensity pattern under conditions that inhibit refractive index changes
14
Heat the exposed medium to favorize refractive index changing reactions
16
Wash the cured medium to remove either reacted or unreacted portions of the medium
18
Dry the washed medium under conditions that limit internal stresses
20
10

FIG. 1

FIG. 2B

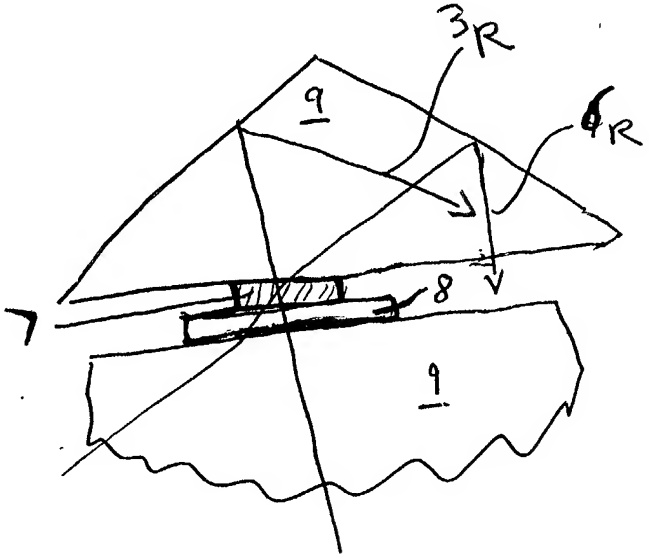


FIG. 2A

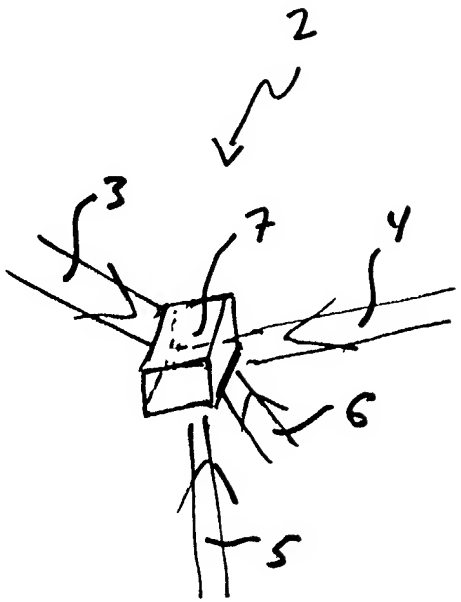


FIG. 3

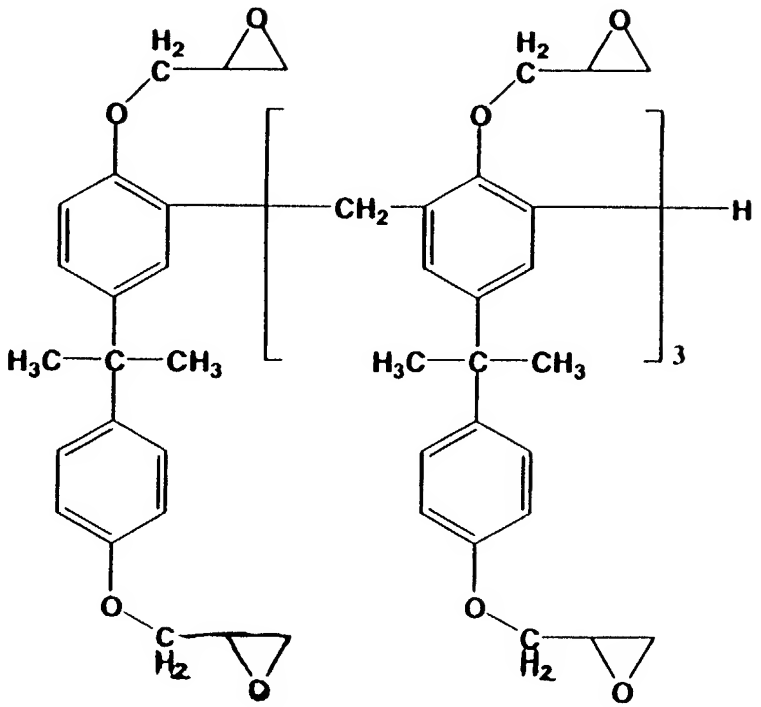
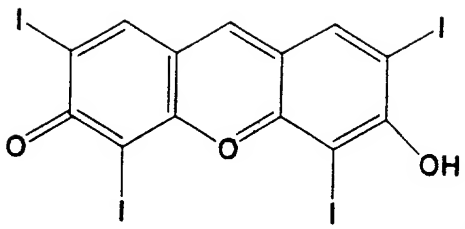
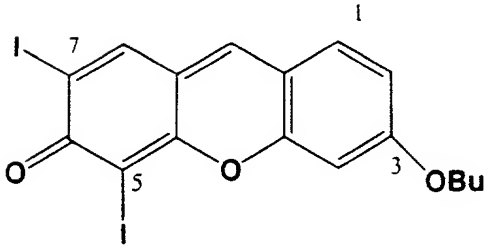


FIG. 4A



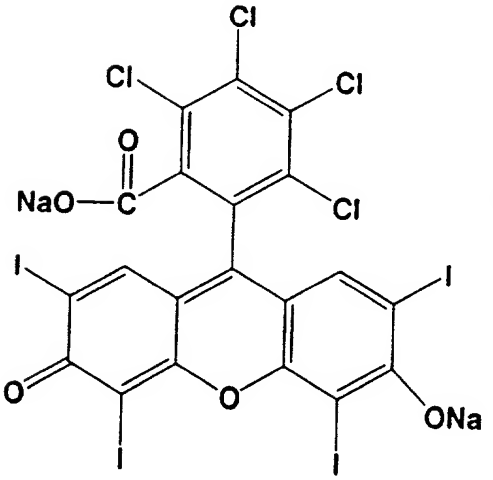
22

FIG. 4B



23

FIG. 4C



24

FIG. 5A

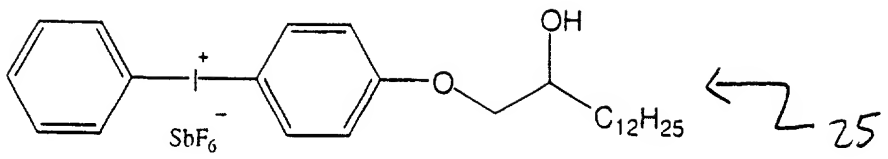


FIG. 5B

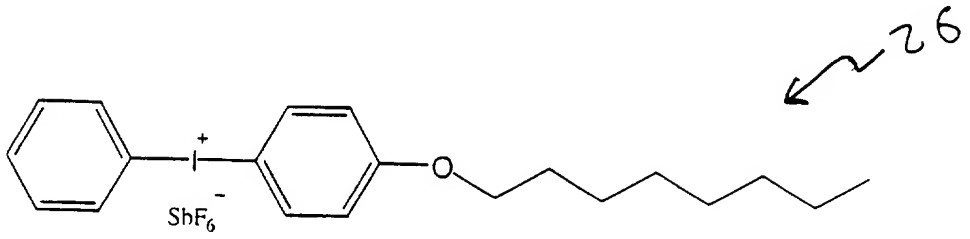
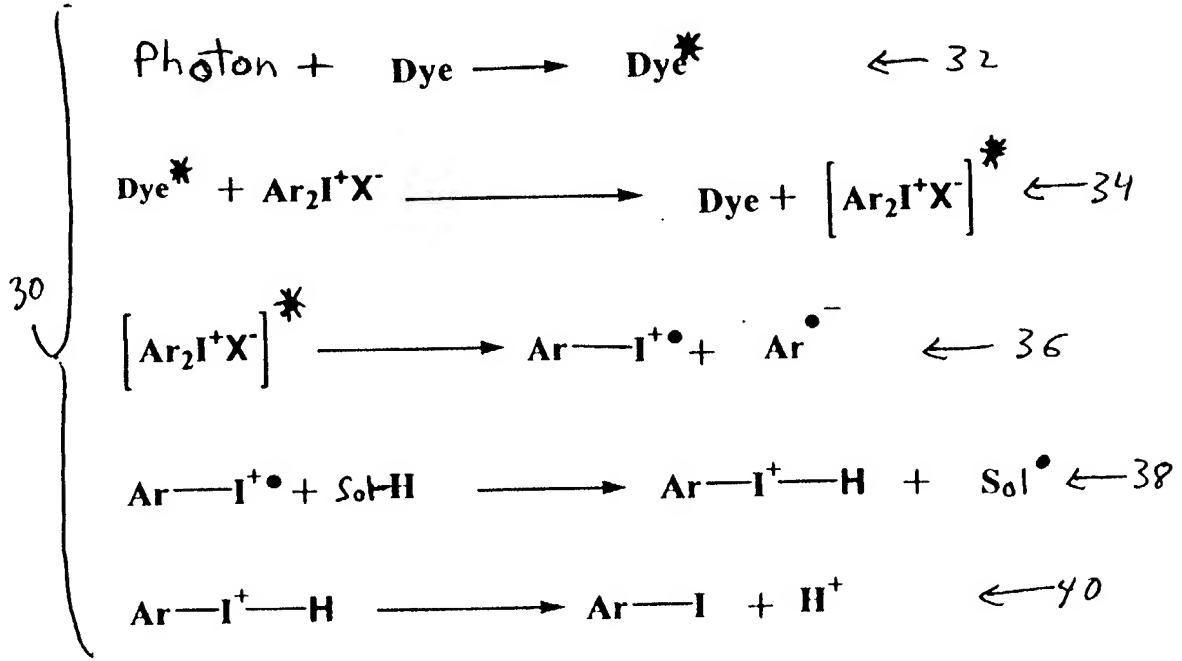


FIG. 6


Photon + Dye → Dye*
Dye* + Ar2I+X- → Dye + [Ar2I+X-]*
[Ar2I+X-]* → Ar—I+• + Ar•-
Ar—I+• + Sol-H → Ar—I+—H + Sol•
Ar—I+—H → Ar—I + H+
30
32
34
36
38
40

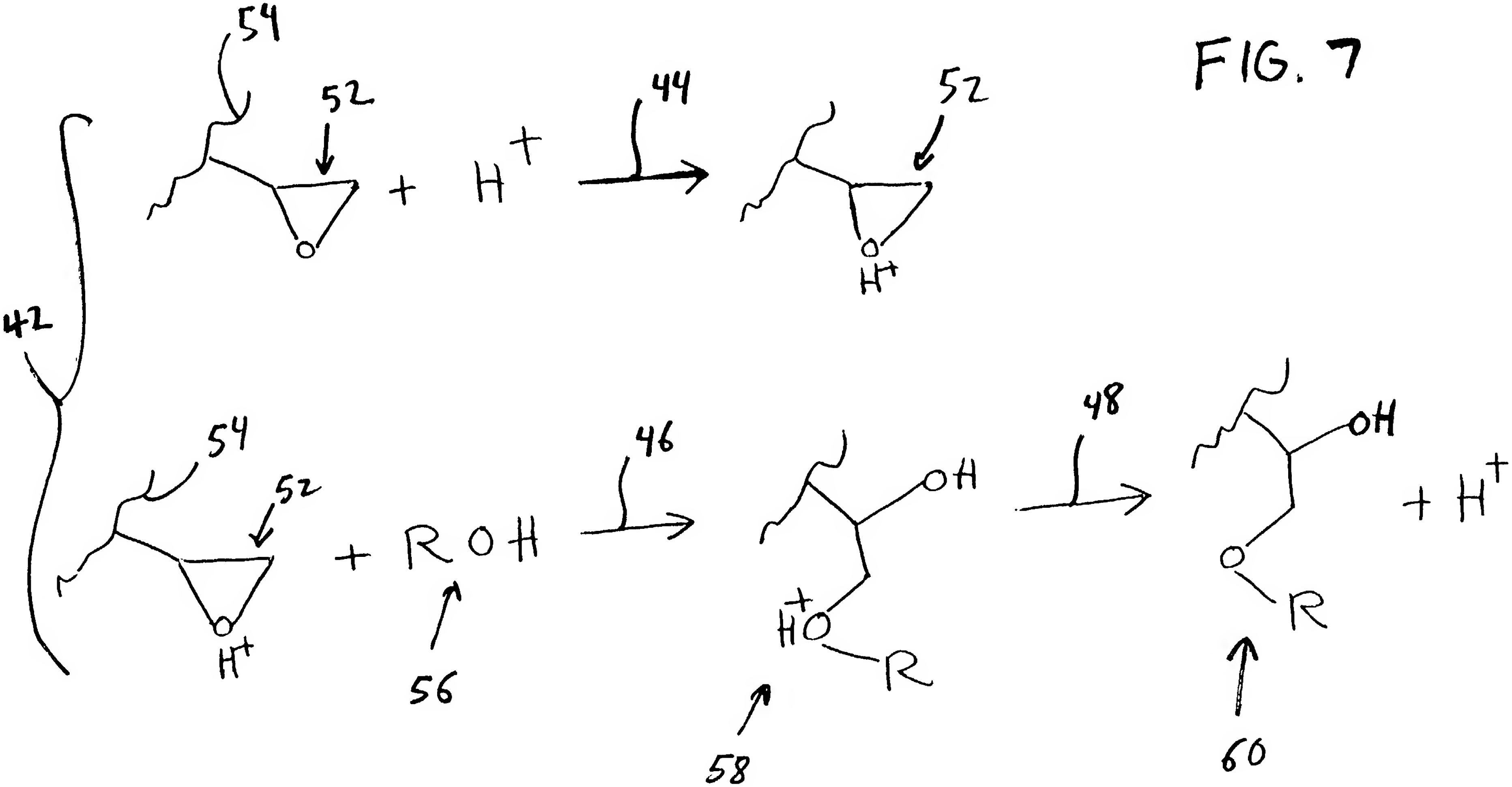


FIG. 7

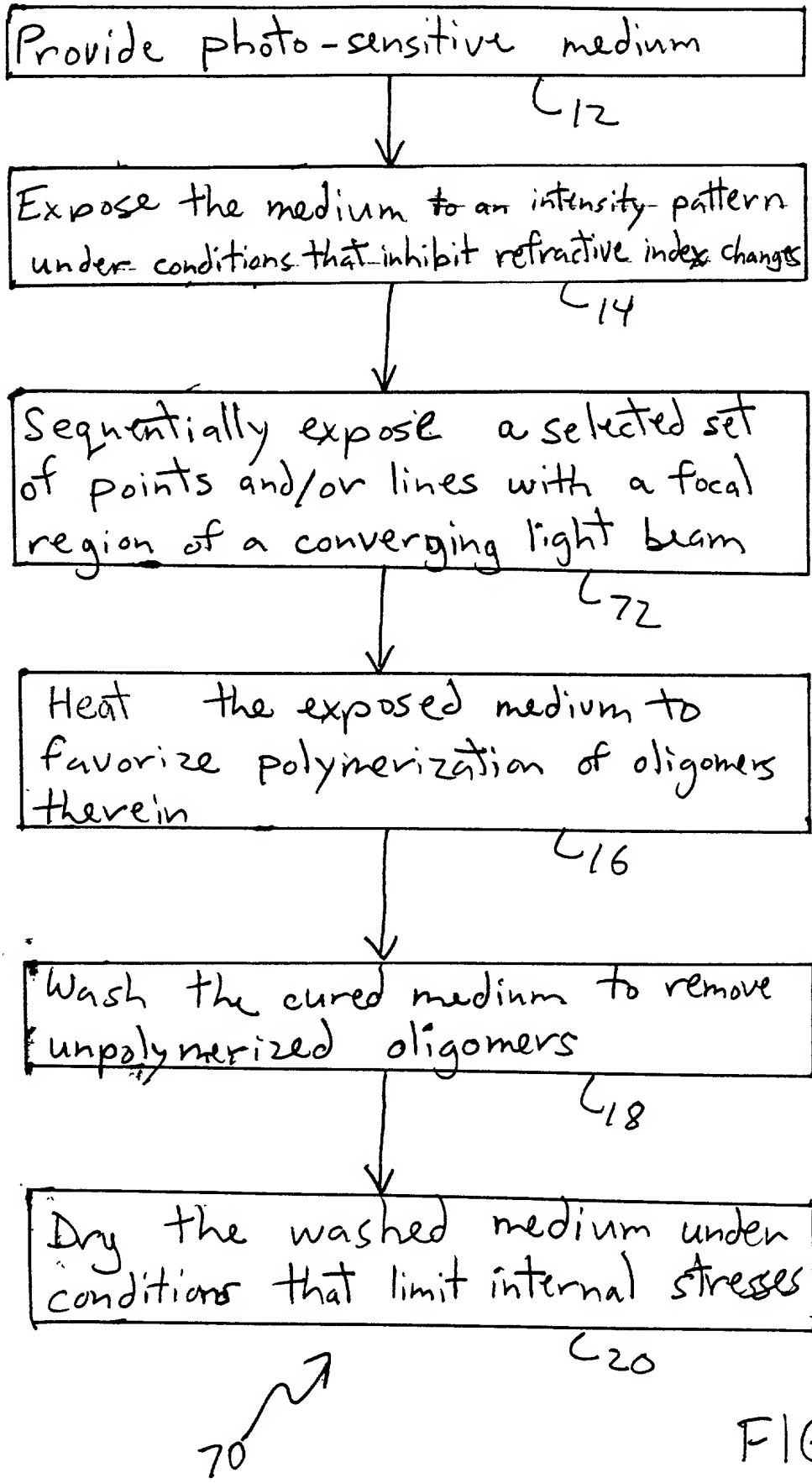

Provide photo-sensitive medium
12
Expose the medium to an intensity-pattern under conditions that inhibit refractive index changes
14
Sequentially expose a selected set of points and/or lines with a focal region of a converging light beam
72
Heat the exposed medium to favorize polymerization of oligomers therein
16
Wash the cured medium to remove unpolymerized oligomers
18
Dry the washed medium under conditions that limit internal stresses
20
70

FIG. 8

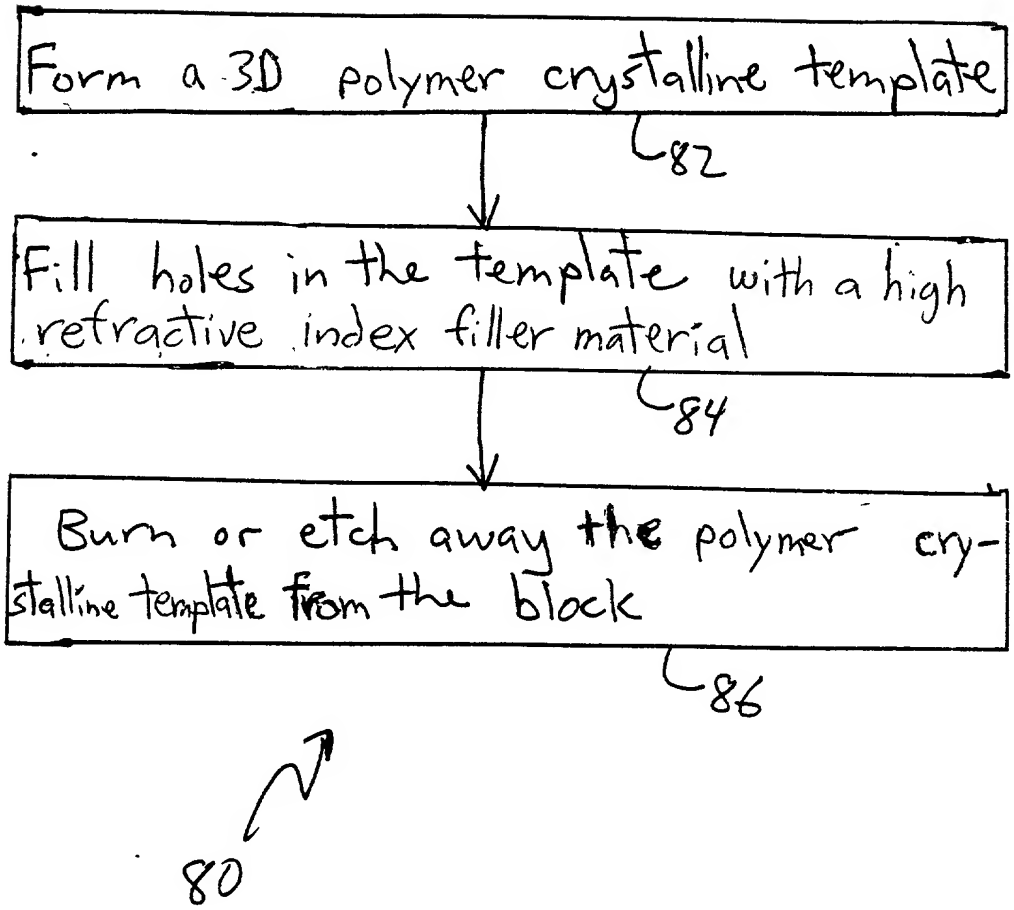


FIG. 9

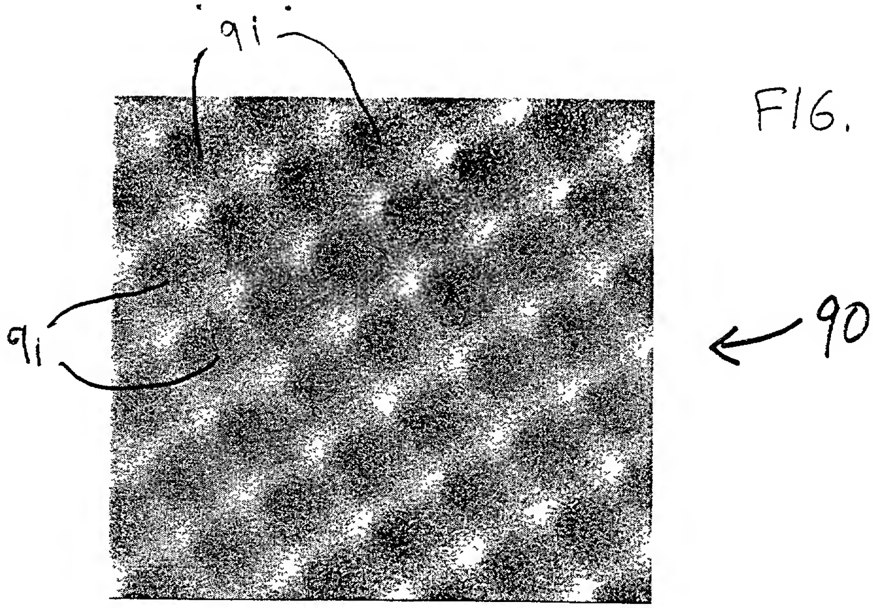


FIG. 10

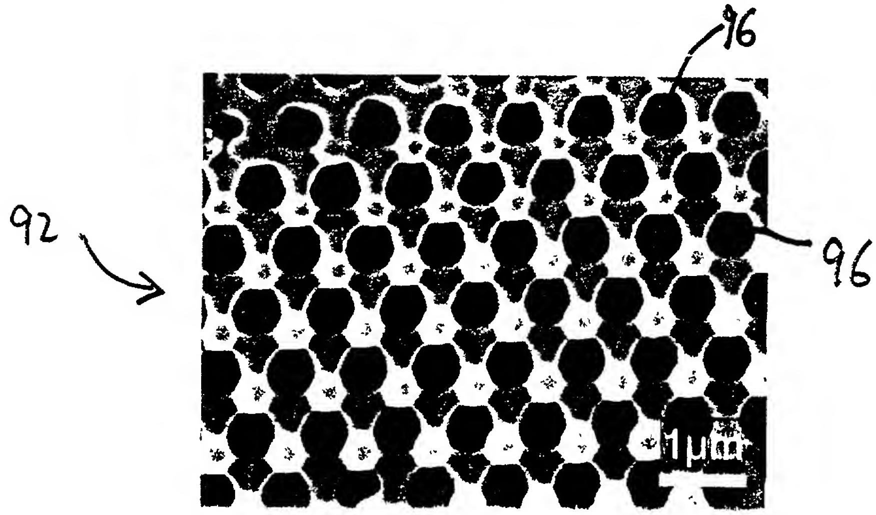


FIG. 11A

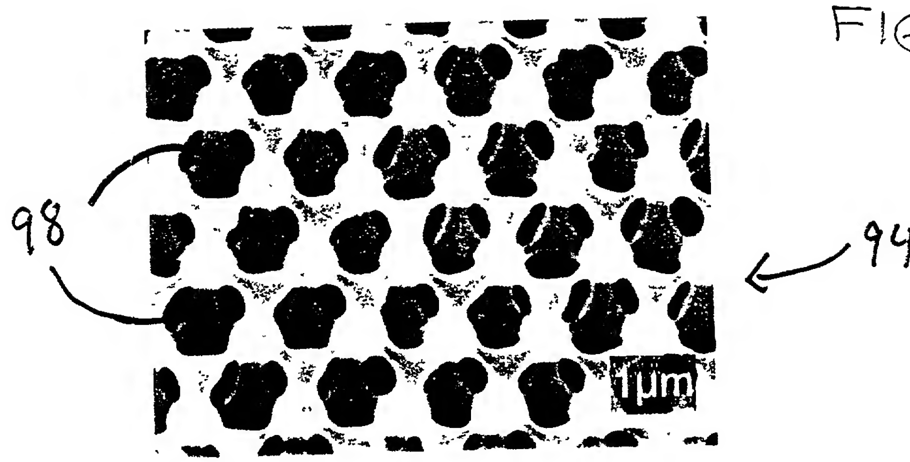


FIG. 11B